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Sequence Listing was accepted.

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Reviewer: Anne Corrigan

Timestamp: Fri Sep 07 16:28:36 EDT 2007

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Application No: 10815495 Version No: 2.0

Input Set:

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Started: 2007-08-27 11:38:41.852
Finished: 2007-08-27 11:38:42.720
Elapsed: 0 hr(s) 0 min(s) 0 sec(s) 868 ms
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Total Errors: 0
No. of SeqIDs Defined: 30
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SEQUENCE LISTING

<110> Connelly, Mariah
Brody, Howard

<120> Methods For Producing Biological Substances In Enzyme-Deficient
Mutants Of Aspergillus Niger

<130> 10345.200-US

<140> 10815495

<141> 2004-03-31

<150> 60/459,902

<151> 2003-03-31

<160> 30

<170> PatentIn version 3.4

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<213> Aspergillus niger

<400> 1

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35 40 45

Asp Leu Ala Asp Arg Leu Gly Pro Tyr Ile Ala Val Ile Lys Thr His
50 55 60

Ile Asp Ile Leu Ser Asp Phe Ser Asp Glu Thr Ile Glu Gly Leu Lys
65 70 75 80

Ala Leu Ala Gln Lys His Asn Phe Leu Ile Phe Glu Asp Arg Lys Phe
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Ile Asp Ile Gly Asn Thr Val Gln Lys Gln Tyr His Arg Gly Thr Leu
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Arg Ile Ser Glu Trp Ala His Ile Ile Asn Cys Ser Ile Leu Pro Gly
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Glu Gly Ile Val Glu Ala Leu Ala Gln Thr Ala Ser Ala Pro Asp Phe
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Ser Tyr Gly Pro Glu Arg Gly Leu Leu Ile Leu Ala Glu Met Thr Ser
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Lys Gly Ser Leu Ala Thr Gly Gln Tyr Thr Thr Ser Ser Val Asp Tyr
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Ala Arg Lys Tyr Lys Asn Phe Val Met Gly Phe Val Ser Thr Arg Ser
180 185 190

Leu Gly Glu Val Gln Ser Glu Val Ser Ser Pro Ser Asp Glu Glu Asp
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Phe Val Val Phe Thr Thr Gly Val Asn Ile Ser Ser Lys Gly Asp Lys
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Leu Gly Gln Gln Tyr Gln Thr Pro Ala Ser Ala Ile Gly Arg Gly Ala
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Asp Phe Ile Ile Ala Gly Arg Gly Ile Tyr Ala Ala Pro Asp Pro Val
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Asn Glu Ala Thr Val Ala Arg Thr Ala Ile Leu Asn Asn Phe Thr Ile
 35 40 45

Gly Ala Asp Gly Ala Trp Val Ser Gly Ala Asp Ser Gly Ile Val Val
 50 55 60

Ala Ser Pro Ser Thr Asp Asn Pro Asp Tyr Phe Tyr Thr Trp Thr Arg
 65 70 75 80

Asp Ser Gly Leu Val Leu Lys Thr Leu Val Asp Leu Phe Arg Asn Gly
 85 90 95

Asp Thr Ser Leu Leu Ser Thr Ile Glu Asn Phe Thr Tyr Ile Ser Ala
100 105 110

Gln Ala Ile Val Gln Gly Ile Ser Asn Pro Ser Gly Asp Leu Ser Ser
115 120 125

Gly Ala Gly Leu Gly Glu Pro Lys Phe Asn Val Asp Glu Thr Ala Tyr
130 135 140

Thr Gly Ser Trp Gly Arg Pro Gln Arg Asp Gly Pro Ala Leu Arg Ala
145 150 155 160

Thr Ala Met Ile Gly Phe Gly Phe Thr Gln Trp Leu Leu Asp Asn Gly
165 170 175

Tyr Thr Ser Thr Ala Thr Asp Ile Val Trp Pro Leu Val Arg Asn Asp
180 185 190

Leu Ser Tyr Val Ala Gln Tyr Trp Asn Gln Thr Gly Tyr Asp Leu Trp
195 200 205

Glu Glu Val Asn Gly Ser Ser Phe Phe Thr Ile Ala Val Gln His Arg
210 215 220

Ala Leu Val Glu Phe Thr Gly Ser Ala Phe Ala Thr Ala Val Gly Ser
225 230 235 240

Ser Cys Ser Trp Cys Asp Ser Gln Ala Pro Glu Ile Leu Cys Tyr Leu
245 250 255

Gln Ser Phe Trp Thr Gly Ser Phe Ile Leu Ala Asn Phe Asp Ser Ser
260 265 270

Arg Ser Gly Lys Asp Ala Asn Thr Leu Leu Gly Ser Ile His Thr Phe
275 280 285

Asp Phe Thr Pro Glu Ala Ala Cys Asp Asp Ser Thr Phe Gln Pro Cys
290 295 300

Ser Pro Arg Ala Leu Ala Asn His Lys Glu Val Val Asp Ser Phe Arg
305 310 315 320

Ser Ile Tyr Thr Leu Asn Asp Gly Leu Ser Asp Ser Glu Ala Val Ala
 325 330 335

Val Gly Arg Tyr Pro Glu Asp Thr Tyr Tyr Asn Gly Asn Pro Phe Thr
 340 345 350

Trp Phe Leu Cys Thr Leu Ala Ala Ala Glu Gln Leu Tyr Asp Ala Leu
 355 360 365

Tyr Gln Trp Asp Lys Gln Gly Ser Leu Glu Val Thr Asp Val Ser Leu
 370 375 380

Asp Phe Phe Lys Ala Leu Tyr Ser Asp Ala Ala Thr Gly Thr Tyr Ser
 385 390 395 400

Ser Ser Ser Ser Thr Tyr Ser Ser Ile Val Asp Phe Thr Ala Val Lys
 405 410 415

Thr Phe Ala Asp Gly Phe Val Ser Ile Val Glu Thr His Ala Ala Ser
 420 425 430

Asn Gly Ser Met Ser Glu Gln Tyr Asp Lys Ser Asp Gly Glu Gln Leu
 435 440 445

Ser Ala Arg Asp Leu Thr Trp Ser Tyr Ala Ala Leu Leu Thr Ala Asn
 450 455 460

Asn Arg Arg Asn Ser Val Val Pro Phe Thr Ala Ser Trp Gly Glu Thr
 465 470 475 480

Ser Ala Ser Ser Val Pro Gly Thr Cys Ala Ala Thr Ser Ala Ile Gly
 485 490 495

Thr Tyr Ser Ser Val Thr Val Thr Ser Trp Pro Ser Ile Val Ala Thr
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Gly Gly Thr Thr Thr Thr Ala Thr Pro Thr Gly Ser Gly Ser Val Thr
 515 520 525

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Phe Asp Leu Thr Ala Thr Thr Thr Tyr Gly Glu Asn Ile Tyr Leu Val
565 570 575

Gly Ser Ile Ser Gln Leu Gly Asp Trp Glu Thr Ser Asp Gly Ile Ala
580 585 590

Leu Ser Phe Thr Ala Asp Lys Tyr Thr Ser Ser Asp Pro Leu Trp Tyr
595 600 605

Val Thr Val Thr Leu Pro Ala Gly Glu Ser Phe Glu Tyr Lys Phe Ile
610 615 620

Arg Ile Glu Ser Asp Asp Ser Val Glu Trp Glu Ser Asp Pro Asn Arg
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